

**We claim**

1. An electromagnetic interference (EMI) shielding cage for an electronic module, said shielding cage comprising:
  - a bottom member for mounting to a circuit board;
  - a conductive cover member electrically coupled to said bottom member;
  - first and second conductive exterior sidewalls electrically coupled to the bottom and cover members, the exterior sidewalls each including at least one exterior grounding leg depending downwardly therefrom;
  - at least one interior wall electrically coupled to said bottom and cover members, the interior wall including at least one interior grounding leg depending downwardly therefrom through a corresponding opening disposed in said bottom member for connection to a grounding circuit on said circuit board; and,
  - said bottom member, exterior sidewalls and interior wall and cover member defining at least two distinct, adjacent internal cavities of said cage for receiving electronic modules therein, each of the internal cavities including a distinct opening communicating with the exterior of said cage and through which an electronic module can pass.
2. The shielding cage of claim 1, wherein said exterior sidewalls and interior wall each includes a plurality of grounding legs that depend downwardly therefrom .
3. The shielding cage of claim 2, wherein said interior and exterior grounding legs include compliant pins.
4. The shielding cage of claim 3, wherein said interior and exterior grounding legs include eye-of-needle compliant pins.
5. The shielding cage of claim 2, wherein said exterior grounding legs are spaced apart from each other lengthwise along said sidewalls.
6. The shielding cage of claim 1, wherein said interior wall includes a plurality of

engagement tabs disposed thereon, the engagement tabs being sized and shaped to mechanically and electrically engage at least one of said electrically-conductive bottom and said electrically-conductive elongated cover.

7. The shielding cage of claim 6, wherein said interior wall engagement tabs are mechanically and electrically coupled to said top by at least one of: peening, swaging, knurling, soldering, brazing, welding and gluing.
8. The shielding cage of claim 7, wherein said interior wall engagement tabs are mechanically and electrically coupled to said bottom by at least one of: peening, swaging, knurling, soldering, brazing, welding and gluing.
9. The shielding cage of claim 2, wherein said interior grounding legs are spaced apart from each other lengthwise along said interior wall.
10. The shielding cage of claim 1, wherein said interior wall is oriented substantially perpendicular to said bottom and cover members and adds flexural rigidity to said cover and bottom members.
11. A multiple bay shielding cage for shielding a plurality of electronic modules that are connected to circuits on a circuit board, comprising:
  - a conductive flat base plate with first grounding pins integrally formed therewith for attaching the plate to the circuit board,;
  - a conductive cover member that engages the base plate in a manner such that said base plate and the cover member cooperatively form a conductive, hollow receptacle into which a plurality of electronic modules may be inserted; and,
  - a plurality of interior wall members with second grounding pins integrally formed therewith and extending along a lower edge of the interior wall members, the second grounding pins being spaced apart along the interior wall member lower edges and extending through corresponding openings disposed in said base plate, said interior wall members further including a plurality of engagement tabs that are received within openings formed in said base plate and cover member so as interconnect, electrically and

mechanically, said interior wall members to said base plate and cover member, said second grounding pins defining paths to ground within a perimeter of said base plate.

12. The shielding cage of claim 11, wherein said first and second grounding pins are chosen from the group consisting essentially of straight pins and compliant mounting pins.